

	L #	Search Text	DBs	Time Stamp	Hits
1	L1	726/5.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:31	807
2	L2	709/229.ccls. and (access) adj (control) near (enterprise) adj (network)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:31	0
3	L3	(request) same (user) same (secure access)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:32	66975

	L #	Search Text	DBs	Time Stamp	Hits
4	L4	(authentication) same (method) same (network)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:32	11805
5	L5	L3 and L4	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:32	4118
6	L6	(security token) same (third party) same (network)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:32	8047

	L #	Search Text	DBs	Time Stamp	Hits
7	L7	L5 and L6	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:32	646
8	L8	(plurality) same (authentication) same (method)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:32	3158
9	L9	L7 and L8	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:32	126

	L #	Search Text	DBs	Time Stamp	Hits
10	L10	L9 and (interact) same (user)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:33	54
11	L11	L10 and (home site) same (content site)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:33	47
12	L12	L11 and (enterprise network)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:33	47

	L #	Search Text	DBs	Time Stamp	Hits
13	L13	L12 and (key)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:33	47
14	L14	L13 and (distinguished name or DN)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:33	45
15	L15	L14 and (SAML or passport)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:34	9

	L #	Search Text	DBs	Time Stamp	Hits
16	L16	tovaris.asn.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:34	1
17	L17	filipi-martin.in.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:34	11
18	L18	hope.in. and brian.in.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:34	19

	L #	Search Text	DBs	Time Stamp	Hits
19	L19	L17 and L18	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:34	5
20	L20	L19 and L16	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:35	0
21	L21	713/153.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:35	774

	L #	Search Text	DBs	Time Stamp	Hits
22	L22	713/153.ccls. and "automated encryption"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:35	1
23	L23	713/155.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:35	845
24	L24	713/155.ccls. and "automated encryption"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:35	1

	L #	Search Text	DBs	Time Stamp	Hits
25	L25	713/181.ccls. and "automated encryption"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:35	0
26	L26	709/203.ccls. and "automated encryption"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:36	0
27	L27	709/209.ccls. and "automated encryption"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:36	0

	L #	Search Text	DBs	Time Stamp	Hits
28	L28	380/30.ccls. and "automated encryption"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:36	2
29	L29	380/255.ccls. and "automated encryption"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:36	0
30	L30	(automated) adj (encryption) adj (system) near (electronic) adj (message)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:36	0

	L #	Search Text	DBs	Time Stamp	Hits
31	L31	(automated) adj (encryption) adj (system)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:36	3
32	L32	(electronic message) adj (sender) adj (recipient)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:37	539
33	L33	L31 and L32	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:37	1

	L #	Search Text	DBs	Time Stamp	Hits
34	L34	(sender) adj (e-mail) adj (client)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:37	32
35	L35	L31 and L34	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/31 20:37	0

Interference Search

	L #	Search Text	DBs	Time Stamp	Hits
36	L36	automated AND encryption AND system AND electronic AND message AND private AND key AND password.CLM.	US- PGPUB	2007/07/31 20:38	218
37	L37	automated AND encryption AND system AND electronic AND message AND private AND key and password AND PKI server.CLM.	US- PGPUB	2007/07/31 20:39	59237
38	L38	automated AND encryption AND system AND electronic AND message AND private AND key and password AND PKI AND server.CLM.	US- PGPUB	2007/07/31 20:39	162
39	L39	automated AND encryption AND system AND electronic AND message AND private AND key and password AND recipient AND PKI AND server.CLM.	US- PGPUB	2007/07/31 20:39	97
40	L40	private AND key AND sender AND electronic AND message AND authenticity.CLM.	US- PGPUB	2007/07/31 20:39	119
41	L41	sender AND private AND key AND decrypt AND public AND key AND certificate AND authority.CLM.	US- PGPUB	2007/07/31 20:40	273

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Automated **electronic** messaging encryption system - Patent 20030154371

A system and method of automating the management of **public** and **private key** pairs of a sender and recipient of **electronic messages** over a network and for ...

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[poc] Ontario EBT Data Transport Protocol

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As a best practice, the **public** keys should be distributed via e-mail or other ... When the **private key** file is stored on removable **electronic** media that ...
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1 [Authentication services for computer networks and electronic messaging systems](#)



Keok Auyong, Chye-Lin Chee

July 1997 **ACM SIGOPS Operating Systems Review**, Volume 31 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.03 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

The paper surveys the authentication services used by modern computer systems and presents the major operational authentication services employed by commercial companies, banking as well as government departments. As distributed system services are susceptible to a variety of threats mounted by intruders as well as legitimate users of the system, password-based authentication is not suitable for use on computer networks.

2 [Cryptography and data security](#)



Dorothy Elizabeth Robling Denning

January 1982 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: [pdf\(19.47 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

From the Preface (See Front Matter for full Preface)

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prolific practical data processing systems in the 1980s. As we have come to rely on these systems to process and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...

3 [Security: Developing a public key infrastructure for use in a teaching laboratory](#)



Phillip T. Rawles, Kristoffer A. Baker

October 2003 **Proceedings of the 4th conference on Information technology curriculum CITC4 '03**

Publisher: ACM Press

Full text available: [pdf\(226.86 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Founded on the principle of easy information interchange the Internet is an inherently unsafe communication medium. Despite this inherent insecurity electronic mail continues to grow as a key communication technology. Individuals and businesses both large and small have come to rely on electronic mail. Fortunately technologies have evolved that address the lack of security in the base Internet electronic mail standards. Through the use of Public Key Infrastructure (PKI) technologies it is possib ...

Keywords: active directory, certificate authority, digital certificate, email, microsoft exchange, microsoft outlook, public key infrastructure

4 Identification control: Public key distribution through "cryptoIDs"



Trevor Perrin

August 2003 **Proceedings of the 2003 workshop on New security paradigms NSPW '03**

Publisher: ACM Press

Full text available: pdf(1.51 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we argue that person-to-person key distribution is best accomplished with a key-centric approach, instead of PKI: users should distribute public key fingerprints in the same way they distribute phone numbers, postal addresses, and the like. To make this work, fingerprints need to be *small*, so users can handle them easily; *multipurpose*, so only a single fingerprint is needed for each user; and *long-lived*, so fingerprints don't have to be frequently redistribute ...

Keywords: cryptoIDs, fingerprints, key distribution, key management, public key infrastructure

5 Securing the drop-box architecture for assisted living



Michael J. May, Wook Shin, Carl A. Gunter, Insup Lee

November 2006 **Proceedings of the fourth ACM workshop on Formal methods in security FMSE '06**

Publisher: ACM Press

Full text available: pdf(490.78 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Home medical devices enable individuals to monitor some of their own health information without the need for visits by nurses or trips to medical facilities. This enables more continuous information to be provided at lower cost and will lead to better healthcare outcomes. The technology depends on network communication of sensitive health data. Requirements for reliability and ease-of-use provide challenges for securing these communications. In this paper we look at protocols for the *drop-box* ...

Keywords: assisted living, formal methods, formal verification, home health monitoring, security protocol verification

6 Crypto backup and key escrow



David Paul Maher

March 1996 **Communications of the ACM**, Volume 39 Issue 3

Publisher: ACM Press

Full text available: pdf(498.27 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Encryption and Secure Computer Networks



Gerald J. Popek, Charles S. Kline
December 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 4

Publisher: ACM Press

Full text available: pdf(2.50 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Securing the global, remote, mobile user

Walt Curtis, Lori Sinton

March 1999 **International Journal of Network Management**, Volume 9 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(982.14 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Electronic commerce is inevitable and will reshape our lives, but before true electronic commerce environments can be realized, it will be necessary to secure your enterprise against outside attacks on its electronic information and provide controls for authorized access to that information. Copyright © 1999 John Wiley & Sons, Ltd.

9 Research contributions: A review of information security issues and respective research contributions



Mikko T. Siponen, Harri Oinas-Kukkonen

February 2007 **ACM SIGMIS Database**, Volume 38 Issue 1

Publisher: ACM Press

Full text available: pdf(353.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper identifies four security issues (access to Information Systems, secure communication, security management, development of secure Information Systems), and examines the extent to which these security issues have been addressed by existing research efforts. Research contributions in relation to these four security issues are analyzed from three viewpoints: a meta-model for information systems, the research approaches used, and the reference disciplines used. Our survey reveals that most ...

Keywords: computer science

10 An Internet multicast system for the stock market



August 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 3

Publisher: ACM Press

Full text available: pdf(296.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

We are moving toward an international, 24-hour, distributed, electronic stock exchange. The exchange will use the global Internet, or internet technology. This system is a natural application of multicast because there are a large number of receivers that should receive the same information simultaneously. The data requirements for the stock exchange are discussed. The current multicast protocols lack the reliability, fairness, and scalability needed in this application. We describe a distr ...


Keywords: multicast

11 Email and security: How to make secure email easier to use



Simson L. Garfinkel, David Margrave, Jeffrey I. Schiller, Erik Nordlander, Robert C. Miller
April 2005 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '05**

Publisher: ACM Press

Full text available:  [pdf\(419.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

Cryptographically protected email has a justly deserved reputation of being difficult to use. Based on an analysis of the PEM, PGP and S/MIME standards and a survey of 470 merchants who sell products on Amazon.com, we argue that the vast majority of Internet users can start enjoying digitally signed email today. We present suggestions for the use of digitally signed mail in e-commerce and simple modifications to webmail systems that would significantly increase integrity, privacy and authorship ...

Keywords: e-commerce, user interaction design, user studies

12 Accountability protocols: Formalized and verified

 Giampaolo Bella, Lawrence C. Paulson
May 2006 **ACM Transactions on Information and System Security (TISSEC)**, Volume 9 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(433.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Classical security protocols aim to achieve authentication and confidentiality under the assumption that the peers behave honestly. Some recent protocols are required to achieve their goals even if the peer misbehaves. *Accountability* is a protocol design strategy that may help. It delivers to peers sufficient evidence of each other's participation in the protocol. Accountability underlies the nonrepudiation protocol of Zhou and Gollmann and the certified email protocol of Abadi et al. Thi ...

Keywords: Isabelle, Nonrepudiation, certified email, inductive method, proof tools

13 Healthcare data integration and exchange: Bridging a gap in the proposed personal health record

 Wai Gen Yee, Brett Trockman
November 2006 **Proceedings of the international workshop on Healthcare information and knowledge management HIKM '06**

Publisher: ACM Press

Full text available:  [pdf\(280.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


The emerging electronic health record infrastructure is guiding records to be stored in repositories that collectively supply a patient's comprehensive health history. However, legal and technological constraints may keep such a system from delivering health histories in a timely manner (i.e., when medical attention is needed). To get around this, we propose a design for a portable personal health record system that complies with HIPAA standards of security and interaction. The authenticity of s ...

Keywords: HIPAA, personal health record, portability, security

14 Illustrative risks to the public in the use of computer systems and related technology

 Peter G. Neumann
January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(2.54 MB\)](#) Additional Information: [full citation](#)

15 Just fast keying in the pi calculus



Martín Abadi, Bruno Blanchet, Cédric Fournet

July 2007 **ACM Transactions on Information and System Security (TISSEC)**, Volume 10
Issue 3

Publisher: ACM Press

Full text available: [pdf\(735.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

JFK is a recent, attractive protocol for fast key establishment as part of securing IP communication. In this paper, we formally analyze this protocol in the applied pi calculus (partly in terms of observational equivalences and partly with the assistance of an automatic protocol verifier). We treat JFK's core security properties and also other properties that are rarely articulated and rigorously studied, such as plausible deniability and resistance to denial-of-service attacks. In the cours ...

Keywords: IP security, key exchange, process calculus

16 The KryptoKnight family of light-weight protocols for authentication and key distribution

Ray Bird, Inder Gopal, Amir Herzberg, Phil Janson, Shay Kutten, Refik Molva, Moti Yung
February 1995 **IEEE/ACM Transactions on Networking (TON)**, Volume 3 Issue 1

Publisher: IEEE Press

Full text available: [pdf\(1.64 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#),
[review](#)

17 Electronic funds transfer networks: The impact of performance and security considerations

John C. Comfort, Pamela K. Coats
January 1980 **Proceedings of the 13th annual symposium on Simulation ANSS '80**

Publisher: IEEE Press

Full text available: [pdf\(1.38 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Bankers need a tool to help them make constructive economical decisions about the design and feasibility of electronic funds transfer (EFT) systems. The current research presents a preliminary design of a secure, reliable EFT system for the state of Florida. The system is simulated to evaluate the effect of different network topologies, message arrival rates, and communication line speeds on system response time and line loading. In addition, a fault study is performed to assess system perf ...

18 Verifying security protocols with Brutus



E. M. Clarke, S. Jha, W. Marrero

October 2000 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 9 Issue 4

Publisher: ACM Press

Full text available: [pdf\(347.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Due to the rapid growth of the "Internet" and the "World Wide Web" security has become a very important concern in the design and implementation of software systems. Since security has become an important issue, the number of protocols in this domain has become very large. These protocols are very diverse in nature. If a software architect wants to deploy some of these protocols in a system, they have to be sure that the protocol has the right properties as dictated ...

Keywords: authentication and secure payment protocols, formal methods, model-checking

19 Illustrative risks to the public in the use of computer systems and related technology



Peter G. Neumann

January 1994 **ACM SIGSOFT Software Engineering Notes**, Volume 19 Issue 1

Publisher: ACM Press

Full text available: pdf(2.24 MB) Additional Information: [full citation](#), [citations](#), [index terms](#)

20 Security in embedded systems: Design challenges



Srivaths Ravi, Anand Raghunathan, Paul Kocher, Sunil Hattangady

August 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 3

Publisher: ACM Press

Full text available: pdf(3.67 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Many modern electronic systems---including personal computers, PDAs, cell phones, network routers, smart cards, and networked sensors to name a few---need to access, store, manipulate, or communicate sensitive information, making security a serious concern in their design. Embedded systems, which account for a wide range of products from the electronics, semiconductor, telecommunications, and networking industries, face some of the most demanding security concerns---on the one hand, they are oft ...

Keywords: Embedded systems, architecture, authentication, battery life, cryptographic algorithms, decryption, encryption, hardware design, processing requirements, security, security attacks, security protocols, tamper resistance

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IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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- ☐ 1. **Usable Encryption Enabled by AJAX**
Ryan, J.F.; Reid, B.L.;
[Networking and Services, 2006. ICNS '06. International conference on](#)
2006 Page(s):116 - 116
Digital Object Identifier 10.1109/ICNS.2006.114
[AbstractPlus](#) | Full Text: [PDF\(610 KB\)](#) IEEE CNF
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- ☐ 2. **Privacy-enhanced Internet storage**
Susilo, W.; Fangguo Zhang; Yi Mu;
[Advanced Information Networking and Applications, 2005. AINA 2005. 19th Int](#)
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Volume 1, 28-30 March 2005 Page(s):603 - 608 vol.1
Digital Object Identifier 10.1109/AINA.2005.284
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- ☐ 3. **Fitting Square Pegs into Round Holes**
Martin, L.;
[Security & Privacy Magazine, IEEE](#)
Volume 4, Issue 5, Sept.-Oct. 2006 Page(s):64 - 66
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